

ConocoPhillips

END OF WELL SCHEMATIC

Well Name: San Juan 32-8 # 236A

API #: 30-045-32331

Location: 760' FSL & 1530' FEL

Sec. 22 - T31N - R8W

San Juan County, NM

Elevation: 6462' GL (above MSL)

Drl Rig RKB: 13' above Ground Level

Datum: Drl Rig RKB = 13' above GL

Note - this well is equipped with rods & pump

7-1/16" 3M x 2-3/8" EUE 8rd Bonnet

11" 3M x 7-1/16" 3M Tubing Head

9-5/8" 8 RD x 11" 3M Casing Head

Spud: 9-Jul-04

Release Drl Rig: 11-Jul-04

Move In Cav Rig: 29-Jul-04

Release Cav Rig: 7-Aug-04

Surface Casing

Date set: 9-Jul-04

Size 9 5/8 in

Set at 234 ft

Jnts: 5

Wt. 32.3 ppf

Grade H-40

Hole Size 12 1/4 in

Conn STC

Excess Cmt 125 %

T.O.C. SURFACE

Csg Shoe 234 ft

TD of 12-1/4" hole 245 ft

Notified BLM @ 19:10 hrs on 07-Jul-04

Notified NMOCD @ 19:13 hrs on 07-Jul-04

Intermediate Casing

Date set: 11-Jul-04

Size 7 in

73 jts

Set at 3124 ft

0 pups

Wt. 20 ppf

Grade J-55

Hole Size 8 3/4 in

Conn STC

Excess Cmt 160 %

Top of Float Collar 3083 ft

T.O.C. SURFACE

Bottom of Casing Shoe 3124 ft

Pup @ 3124 ft

TD of 8-3/4" Hole 3130 ft

Pup @ 3124 ft

Notified BLM @ 16:04 hrs on 10-Jul-04

Notified NMOCD @ 16:06 hrs on 10-Jul-04

Production Liner

Date set: 04-Aug-04

Size 5 1/2 in

Nominal Wt. 15.5 ppf

Grade J-55

Connections: LTC

Jnts: 8

Hole Size 6.25 / 9.5 inches

Underreamed 6-1/4" hole to 9.5" from 3128' to 3445'

Top of Liner 3085 ft

PBSD 3444 ft

Bottom of Liner 3445 ft

This well was NOT cavitated.

☒ New
☐ Used☒ New
☐ Used☒ New
☐ Used

Surface Cement

Date cmt'd: 9-Jul-04

Lead : 150 sx Class G Cement

+ 2% BWOC S001 CaCh2 + 1lb/bbl D974

+ 0.25 lb/sx D130 Cellophane Flakes

1.16 cuft/sx, 174 cuft slurry at 15.8 ppg

Displacement: 15.3 bbls fresh wtr

Bumped Plug at: 08:00 hrs w/ 390 psi

Final Circ Press: 50 psi @ 0.7 bpm

Returns during job: YES

CMT Returns to surface: 17 bbls

Floats Held: No floats used

W.O.C. for 6.00 hrs (plug bump to start NU BOP)

W.O.C. for 9.50 hrs (plug bump to test csg)

Intermediate Cement

Date cmt'd: 11-Jul-04

Lead : 410 sx Class G Cement

+ 3% D079 Extender

+ 0.25 lb/sx D029 Cellophane Flakes

+ 0.2% D046 Antifoam

+ 0.05 gal/sx D047 Antifoam

2.61cuft/sx, 1070.1 cuft slurry at 11.7 ppg

Tail : 100 sx 50/50 POZ : Class G cement

+ 2% D020 Bentonite

+ 2% S001 Calcium Chloride

+ 5 lb/sx D024 Gilsonite

+ 0.25 lb/sx D029 Cellophane Flakes

+ 0.1% D046 Antifoam

1.27 cuft/sx, 127 cuft slurry at 13.5 ppg

Displacement: 125 bbls

Bumped Plug at: 19:40 hrs w/ 1400 psi

Final Circ Press: 700 psi @ 2 bpm

Returns during job: YES

CMT Returns to surface: 49 bbls

Floats Held: ☒ Yes ☐ No

UNCEMENTED LINER

Schematic prepared by:

Steven O. Moore, Drilling Engineer

16-Aug-2004

TD 3,445 ft

COMMENTS:

9-5/8" Surf:	No float equipment was run. Ran a guide shoe and an aluminum baffle plate 1 jt above the guide shoe @ 189'. Displaced top wiper plug with water. Shut in casing head and WOC before backing out landing jt. CENTRALIZERS @ 224', 146', 102', & 58'. Total: 4
7" Intermediate	DISPLACED W/20 BBLS. FRESH WATER & 104.9 BBLS. SLIGHTLY POLYMERIZED 8.4 PPG DRILLING MUD. CENTRALIZERS @ 3114', 3040', 2955', 2871', 2785', 2701', 212', 82', & 39'. TURBOLIZERS @ 2277', 2234', 2121', & 2149'. Total: 9 Total: 4
5.5" Liner	Ran 6-1/16" OD bladed shoe w/ float valve on btm of liner. Ran liner w/ TIW H-Latch Drop Off Tool (no liner hanger).
Perforations	Perforated 5-1/2" liner with guns on E-line at 4 spf, 0.75" diameter, 120 degree phased holes Perf. Intervals: 3138'-3142', 3150'-3152', 3164'-3171', 3209'-3212', 3260'-3272', 3274'-3278', 3314'-3326', 3330'-3343', 3352'-3354'. TOTAL SHOTS 236.
Tubing	30.65' x 2-7/8" OD Orange Peeled Mud Anchor with eight each 0.25" x 8" slots just below the upset, 2-7/8" x 2-3/8" EUE 8rd crossover collar, 2-3/8" OD (1.78" ID) F-Nipple, 1 ea 2-3/8" OD x 10' long pup jt 107 jts 2-3/8" 4.7# J-55 EUE 8rd tubing Bottom of Mud Anchor at 3430'. F-Nipple at 3399' MD RKB.
Pump & Rods	12" long strainer attached below 1-1/2" RWAC-Z insert pump with 1 ea 4' long x 3/4" OD pony rod on top of pump 135 ea 3/4" OD rods & space out with 2' - 6' - 8' x 3/4" OD pony rods & 1 ea 1-1/4" OD x 22' polished rod Set pump in F-Nipple at 3399' MD RKB